

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

# Unit 3, Lesson 10: What Are Percentages?

1. What percentage of a dollar is the value of each coin combination?

a. 4 dimes  $\frac{40}{100} = 40\%$

b. 1 nickel and 3 pennies  $\frac{8}{100} = 8\%$

c. 5 quarters and 1 dime  $\frac{135}{100} = 135\%$

1/3

2. a. List three different combinations of coins, each with a value of 30% of a dollar.

$.25$  quarter +  $.05$  nickel       $.10 + .10 + .10$  dime dime dime       $.10 + .10 + .05 + .05$  dime dime nickel nickel

b. List two different combinations of coins, each with a value of 140% of a dollar.

$.25 + .25 + .25 + .25 + .25 + .10 + .05$  14 dimes  $\rightarrow 140\%$  or  $1.40$

1/2

3. The United States government used to make coins of many different values. For each coin, state its worth as a percentage of \$1.



a.  $\frac{1}{2}$  cent  $\frac{.5}{100} = .5\%$

c. 20 cents  $\frac{20}{100} = 20\%$

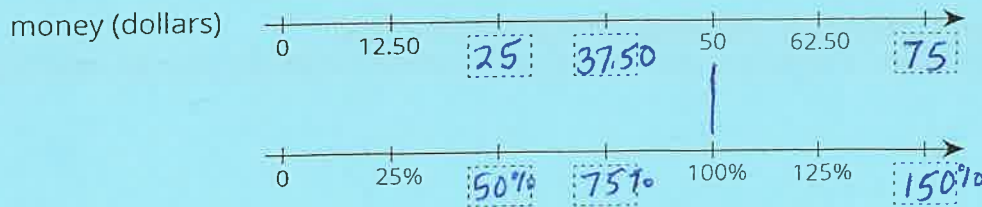
e. \$5  $\frac{500}{100} = 500\%$

b. 3 cents  $\frac{3}{100} = 3\%$

d. \$2  $\frac{200}{100} = 200\%$

1/5

4. Complete the double number line to show percentages of \$50.



1/2

5. Elena bought 8 tokens for \$4.40. At this rate:

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$$\begin{array}{r} \# \quad \$ \\ 8 \quad | \quad 4.40 \\ \underline{- 1 \quad | \quad .55} \\ \phantom{8} \quad | \quad 6.05 \end{array} \div 8$$

a. How many tokens could she buy with \$6.05?  $6.05 \div .55 = 11$  tokens

b. How much do 19 tokens cost?  $19 \times .55 = 10.45$

12

(from Unit 3, Lesson 9)

6. A snail travels 10 cm in 4 minutes. At this rate:

a. How long will it take the snail to travel 24 cm?

9.6

b. How far does the snail travel in 6 minutes?

15

cm	min	cm per min
10	4	2.5
24	9.6	2.5
15	6	2.5

12

(from Unit 3, Lesson 8)

7. a. 3 tacos cost \$18. Complete the table to show the cost of 4, 5, and 6 tacos at the same rate.

b. If you buy  $t$  tacos for  $c$  dollars, what is the unit rate?

number of tacos	cost in dollars	rate in dollars per taco
3	\$ 18	\$ 6
4	\$ 24	\$ 6
5	\$ 30	\$ 6
6	\$ 36	\$ 6
$t$	$c$	$\frac{c}{t}$ or $c \div t$

18

(from Unit 3, Lesson 7)

24